

Strategic University Research Partnership Proposal for FY2014
Due Date: June 24th, 2013, by 4 PM PDT

NOTE: Please mark in red, italic font, all sections that are ITAR sensitive

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1. Title of Proposal	
2. JPL Principal Investigator Name – Section	3. Co-Investigator(s) (University and JPL Co-Is) Name – Affiliation – Email
4. Total Budget Request for FY14 : Graduate Research Award proposal included [] Multi-year Student Research Initiative []	
5. Student Participants Name – Affiliation – academic level – Email	
6. Topic Area— <i>Place a "1" next to your primary area and a "2" next to your secondary (optional) area. - you may delete unused entries</i> Solar System Science <input type="checkbox"/> Solar system origin, structure and evolution <input type="checkbox"/> Planetary Atmospheres and Geology <input type="checkbox"/> Solar System characteristics and origin of life <input type="checkbox"/> Primitive solar systems bodies <input type="checkbox"/> Lunar science <input type="checkbox"/> Preparing for returned sample investigations Earth Science <input type="checkbox"/> Atmospheric composition and dynamics <input type="checkbox"/> Land and solid earth processes <input type="checkbox"/> Water and carbon cycles <input type="checkbox"/> Ocean and ice <input type="checkbox"/> Earth analogs to planets <input type="checkbox"/> Climate Science Astronomy and Fundamental Physics <input type="checkbox"/> Origin, evolution, and structure of the universe <input type="checkbox"/> Gravitational astrophysics and fundamental physics <input type="checkbox"/> Extra-solar planets and star and planetary formation <input type="checkbox"/> Solar and Space Physics <input type="checkbox"/> Formation and evolution of galaxies In-Space Propulsion Technologies <input type="checkbox"/> Chemical propulsion	Communication and Navigation <input type="checkbox"/> DSN Science <input type="checkbox"/> Optical communications & navigation technology <input type="checkbox"/> Radio frequency communications <input type="checkbox"/> Internetworking <input type="checkbox"/> Position, navigation and timing <input type="checkbox"/> Active radar instruments <input type="checkbox"/> Distributed spacecraft formation <input type="checkbox"/> Revolutionary concepts <input type="checkbox"/> Pointing systems Human Exploration Destination Systems <input type="checkbox"/> In-situ resource utilization <input type="checkbox"/> Cross-cutting systems Science Instruments, Observatories and Sensor Systems <input type="checkbox"/> Science Mission Directorate Technology Needs <input type="checkbox"/> Remote Sensing instruments/sensors <input type="checkbox"/> Observatory technology <input type="checkbox"/> Advanced optics and telescopes <input type="checkbox"/> In-situ instruments/sensor technologies <input type="checkbox"/> Visible/IR/submillimeter, in-situ and remote sensing instruments <input type="checkbox"/> Focal planes Entry, Descent and Landing Systems <input type="checkbox"/> Aerobraking, aerocapture, and entry systems <input type="checkbox"/> Descent <input type="checkbox"/> Precision Landing <input type="checkbox"/> Vehicle system technology Nanotechnology

<input type="checkbox"/> Non-chemical propulsion <input type="checkbox"/> Electric Propulsion Space Power and Energy Storage <input type="checkbox"/> Power generation <input type="checkbox"/> Energy storage <input type="checkbox"/> Power management & distribution Robotics, Tele-Robotics and Autonomous Systems <input type="checkbox"/> Sensing <input type="checkbox"/> Mobility <input type="checkbox"/> Manipulation technology <input type="checkbox"/> Human-systems interfaces <input type="checkbox"/> Autonomy <input type="checkbox"/> Autonomous rendezvous & docking <input type="checkbox"/> Systems engineering	<input type="checkbox"/> Engineered materials <input type="checkbox"/> Energy generation and storage <input type="checkbox"/> Electronics, devices and sensors Modeling, Simulation, Information Technology and Processing <input type="checkbox"/> Flight and ground computing <input type="checkbox"/> Modeling <input type="checkbox"/> Simulation <input type="checkbox"/> Information processing Materials, Structures, Mechanical Systems and Manufacturing <input type="checkbox"/> Materials <input type="checkbox"/> Structures <input type="checkbox"/> Mechanical systems Thermal Management Systems <input type="checkbox"/> Cryogenic systems <input type="checkbox"/> Thermal control systems <input type="checkbox"/> Thermal protection systems
7. Objectives— <i>State clearly and concisely the objectives of your work and the expected deliverables.</i>	
8. Technical Approach— <i>Describe your plan to achieve your objectives. Provide specific tasks, milestones, and responsibilities.</i>	
9. Renewal Proposal— <i>If this is a renewal proposal, describe the accomplishments of the previous year's work.</i>	
10. Multi-Year Rationale— <i>If you are proposing a multi-year Student Research Initiative, please describe the benefits of an extended award.</i>	
11. Innovative Features— <i>Describe any new and original features of the proposed work.</i>	
12. Team Strengths— <i>Describe the strengths each member of the team brings to the proposed effort.</i>	

13. Exchange of personnel— *Describe any plans to have work performed at JPL by university personnel or at the university by JPL personnel.*

14. Significance and Impact of Results on JPL Missions and Programs—*Indicate specific missions/programs or types of missions.*

15. Plans for Follow-on Funding— *Provide a realistic assessment of future funding potential. Discuss how this proposal may enhance the probability of such funding.*

16. JPL Principal Investigator Signature *(an original signature is required)*

Name:

Signature:

Date:

17. Document Reviewer Signature *(Line organization's export document reviewer - an original signature is required)*

Name:

Signature:

Date:

18. JPL PI Division Manager (or designee) Signature *(an original signature is required)*

Name:

Signature:

Date:

19. University Lead Co-Investigator Signature

Name:

Signature:

Date:

20. University Authorizing Signature *(this signature may also be provided instead on a letter attached with university budget)*

Name:

Signature:

Date:

21. Figures, Graphics, Tables, etc.
(Please do not use "text-wrapping" when incorporating.)

22. SURP Budget Sheet

Category	FY'14 cost
SURP tasks are reported on a Direct Cost ("Raw Cost + Fringe Benefits") basis - no other burdens should be included.	
1. Salaries — <i>(Itemize) Only itemize the person names or job classifications and the number of hours for each. Show one total \$ salary figure for labor. Itemize names and hours (or FTE) here</i>	\$
2. Labor Fringe — <i>Employee Benefits</i>	\$
3. Cat A Labor — <i>(Itemize) Only itemize the person names or job classifications and the number of hours for each. Show one total \$ figure for labor. Itemize names & hours here</i>	\$
4. Procurements–PO (Equipment, Materials and Supplies) <i>(Itemize)</i>	\$
5. Procurement–RSA (or PS) for University Subcontract(s) <i>(Important! See notes #1 and #2 below) Itemize and indicate whether the subcontract will be a RSA or PS type.</i>	\$
6. Procurements– PS <i>(Itemize equipment subcontracts)</i>	\$
7. Procurements– PS <i>(Itemize materials and supplies subcontracts)</i>	\$
8. Services — <i>(Itemize all in-house services at JPL)</i>	\$
9. Travel — <i>(itemize by trip into the following categories):</i> --- Domestic Conference Travel (specify conference title, travel destination, and total budgeted cost for each conference) --- Domestic Programmatic Travel (specify travel destination and total budgeted cost for each trip) --- Foreign Conference Travel (only one foreign conference travel is allowed per year, specify conference title, travel destination, and total budgeted cost for the conference) --- Foreign Programmatic Travel (specify travel destination and total budgeted cost for each trip)	\$
10. Other — <i>(Chargebacks, etc.) (Itemize)</i>	\$
11. TOTAL BUDGET REQUEST <i>(total of dollars 1 through 10)</i>	\$

Note #1: You must attach a budget breakdown from each university partner. There is no page limit and the format is the university's choice. The budget breakdown should be adequate for reviewers to understand labor, procurements, subcontracts, services, travel, and university overhead.

Note #2: Use an "RSA" type of subcontract to send funds to your university partner, except for the following circumstances: If your proposal involves hardware or software deliveries or if government furnished property will be sent to the university, then a RSA subcontract will not be allowed. Under these circumstances, use a "PS" type of subcontract

23. Budget Details for University Partner(s)

Complete the table below for each partner. You may include your collaborator's budget details in a format of their choosing, in addition to this table - there is no page limit for this

UNIVERSITY PARTNER BUDGET SHEET	FY'14 Cost
a. Salaries (<i>Itemize</i>) Only "itemize" the person names and job classifications and the number of hours for each. You can show one total \$ salary figure for labor.	\$0
b. Employee Benefits	\$0
c. Procurements –Equipment, Materials and Supplies (<i>Itemize</i>).	\$0
d. Procurements – Subcontracts (<i>Itemize</i>)	\$0
e. Services – (<i>Itemize</i>)	\$0
f. Travel – (<i>Itemize</i>)	\$0
g. Other - (<i>Itemize</i>) (include Tuition Remission here)	\$0
h. Overhead - external (university or other outside organization)	\$0
i. Total Budget (sum of lines a. through h. - include this in your budget sheet above)	\$0